

Amendment

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Serial No.: 10/691,828

Filed: October 23, 2003

Docket No.: K315.132.101

Title: ELECTRO-MECHANICAL TRANSMISSION SYSTEMS

Amendments to the Specification:

Please insert the following new paragraph beginning at page 10 after line 3.

Figures 3A - 3B are schematic diagrams in accordance with embodiments of the invention.

Please insert the following new paragraph beginning at page 14 after line 2:

As illustrated schematically in Figure 3A, embodiments of the invention include mechanical brake 80 arranged to brake at least one of the two previously described electrical machines 82, 84. As illustrated schematically in Figure 3B, the transmission system optionally does not include brake 80 but a third electrical machine 86 instead, which is operable as a motor and whose output shaft 88 is connected (as represented schematically by dashed lines 90, 92) to one of the input and output shafts 23, 43 and which is connected to at least one of the said two electrical machines 82, 84 to be electrically powered thereby.

Please replace the paragraph beginning at page 14, line 3 with the following rewritten paragraph:

In one embodiment, a sensor (~~not shown~~) 94 is provided which produces the signal on line 70 indicative of the torque required at the output shaft. When the transmission system is fitted into a motor vehicle, this sensor conveniently responds to the position of the accelerator pedal, according to one example. This signal is monitored by the control system and only when its magnitude exceeds a predetermined level, thus indicating that a high level of torque is required at the output shaft, is the controller 62 operated to transmit power to the dump resistor 64.